IN THE CLAIMS:

- 1. (Original) A process for combined chemically cleaning and etching parts made of aluminum and/or aluminum alloys comprising:
 - (a) providing a cleaning and etching solution comprising:
 - (1) 5-35 grams/liter of phosphoric acid;
 - (2) 5-35 grams/liter of hydrogen fluoride;
 - (3) 55-95 grams/liter of sulfamic acid;
 - (4) 55-95 grams/liter of glycol ether; and
 - (5) balance water;
 - (b) contacting said parts with said solution for a time sufficient to achieve the desired amount of cleaning and etching;
 - (c) periodically measuring the etching rate of said solution to determine if the etching rate is at or above the required minimum rate;
 - (d) when the etching rate is below the required minimum rate, adding sufficient hydrogen fluoride to restore the etching rate above the required minimum rate; and
 - (e) periodically adding sufficient sulfamic acid to prevent the formation of scale made of hydrated aluminum fluoride.
- 2. (Original) The process of Claim 1, paragraph (d), wherein the amount of hydrogen fluoride added is 0.5-1.3 grams per liter.
- 3. (Original) The process of Claim 1, paragraph (e), wherein the amount of sulfamic acid added is 7-28 grams per liter.
- 4. (Original) The process of Claim 1, wherein the starting amount of phosphoric acid is 25-35 grams per liter.
- 5. (Original) The process of Claim 1, wherein the starting amount of hydrogen fluoride is 25-35 grams per liter.
- 6. (Original) The process of Claim 1, wherein the starting amount of sulfamic acid is 80-95 grams per liter.

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- 7. (Original) The process of Claim 1, wherein the starting amount of glycol ether is 80-95 grams per liter.
- 8. (Original) The process of Claim 1, wherein the glycol ether is propylene glycol monomethyl ether.
 - 9. (Original) The process of Claim 1, wherein the process is run at ambient temperature.
- 10. (Original) A process for combined chemically cleaning and etching parts made of aluminum and/or aluminum alloys comprising:
 - (a) providing a cleaning and etching solution comprising:
 - (1) 5-35 grams/liter of phosphoric acid;
 - (2) 5-35 grams/liter of hydrogen fluoride;
 - (3) 120-220 grams/liter of sulfamic acid;
 - (4) 55-95 grams/liter of glycol ether; and
 - (5) balance water;
 - (b) contacting said parts with said solution for a time sufficient to achieve the desired amount of cleaning and etching;
 - (c) periodically measuring the etching rate of said solution to determine if the etching rate is at or above the required minimum rate;
 - (d) when the etching rate is below the required minimum rate, adding sufficient hydrogen fluoride to restore the etching rate above the required minimum rate; and
 - (e) periodically adding sufficient sulfamic acid to prevent the formation of scale made of hydrated aluminum fluoride.
- 11. (Original) The process of Claim 10, paragraph (d), wherein the amount of hydrogen fluoride added is 0.5-1.3 grams per liter.
- 12. (Original) The process of Claim 10, paragraph (e), wherein the amount of sulfamic acid added is 7-28 grams per liter.
- 13. (Original) The process of Claim 10, wherein the starting amount of phosphoric acid is 25-35 grams per liter.

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- 14. (Original) The process of Claim 10, wherein the starting amount of hydrogen fluoride is 25-35 grams per liter.
- 15. (Original) The process of Claim 10, wherein the starting amount of sulfamic acid is 120-130 grams per liter.
- 16. (Original) The process of Claim 10, wherein the starting amount of glycol ether is 80-95 grams per liter.
- 17. (Original) The process of Claim 10, wherein the glycol ether is propylene glycol monomethyl ether.
 - 18. (Original) The process of Claim 10, wherein the process is run at ambient temperature.
- 19. (Original) A process for combined chemically cleaning and etching parts made of aluminum and/or aluminum alloys comprising:
 - (a) providing a cleaning and etching solution comprising:
 - (1) 25-35 grams/liter of phosphoric acid;
 - (2) 25-35 grams/liter of hydrogen fluoride;
 - (3) 120-130 grams/liter of sulfamic acid;
 - (4) 80-95 grams/liter of propylene glycol monomethyl ether; and
 - (5) balance water;
 - (b) contacting said parts with said solution for a time sufficient to achieve the desired amount of cleaning and etching;
 - (c) periodically measuring the etching rate of said solution to determine if the etching rate is at or above the required minimum rate;
 - (d) when the etching rate is below the required minimum rate, adding 0.5-1.3 grams of hydrogen fluoride; and
 - (e) periodically adding 7-28 grams per liter of sulfamic acid.
 - 20. (Original) The process of Claim 19, wherein the process is run at ambient temperature.
- 21. (Withdrawn) A solution for combined chemically cleaning and etching parts made of aluminum and/or aluminum alloys comprising:
 - (a) 5-30 grams/liter of phosphoric acid;

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- (b) 5-30 grams/liter of hydrogen fluoride;
- (c) 120-220 grams/liter of sulfamic acid;
- (d) 55-85 grams/liter of glycol ether; and
- (e) balance water.
- 22. (Withdrawn) The solution of Claim 21, wherein the amount of phosphoric acid is 25-35 grams per liter.
- 23. (Withdrawn) The solution of Claim 21, wherein the starting amount of hydrogen fluoride is 25-35 grams per liter.
- 24. (Withdrawn) The solution of Claim 21, wherein the starting amount of sulfamic acid is 120-130 grams per liter.
- 25. (Withdrawn) The solution of Claim 21, wherein the starting amount of glycol ether is 80-95 grams per liter.
- 26. (Withdrawn) The solution of Claim 21, wherein the glycol ether is propylene glycol monomethyl ether.

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